ABSTRACT OF THE DISCLOSURE

A channel allocation method for radio data calls having different bandwidths to each other in a radio data call processing structure between a mobile switching system and an IWF is disclosed. The method includes receiving a data call connection request; allocating an available time slot and an E1 link; judging a requested bandwidth on the basis of a service option of a received data call; defining a weight value of each data call by using a rate of the requested bandwidth; and dynamically allocating an H_0 channel on an E1 link on the basis of the number of data calls occupied at each H_0 channel and the weight value of each data call.